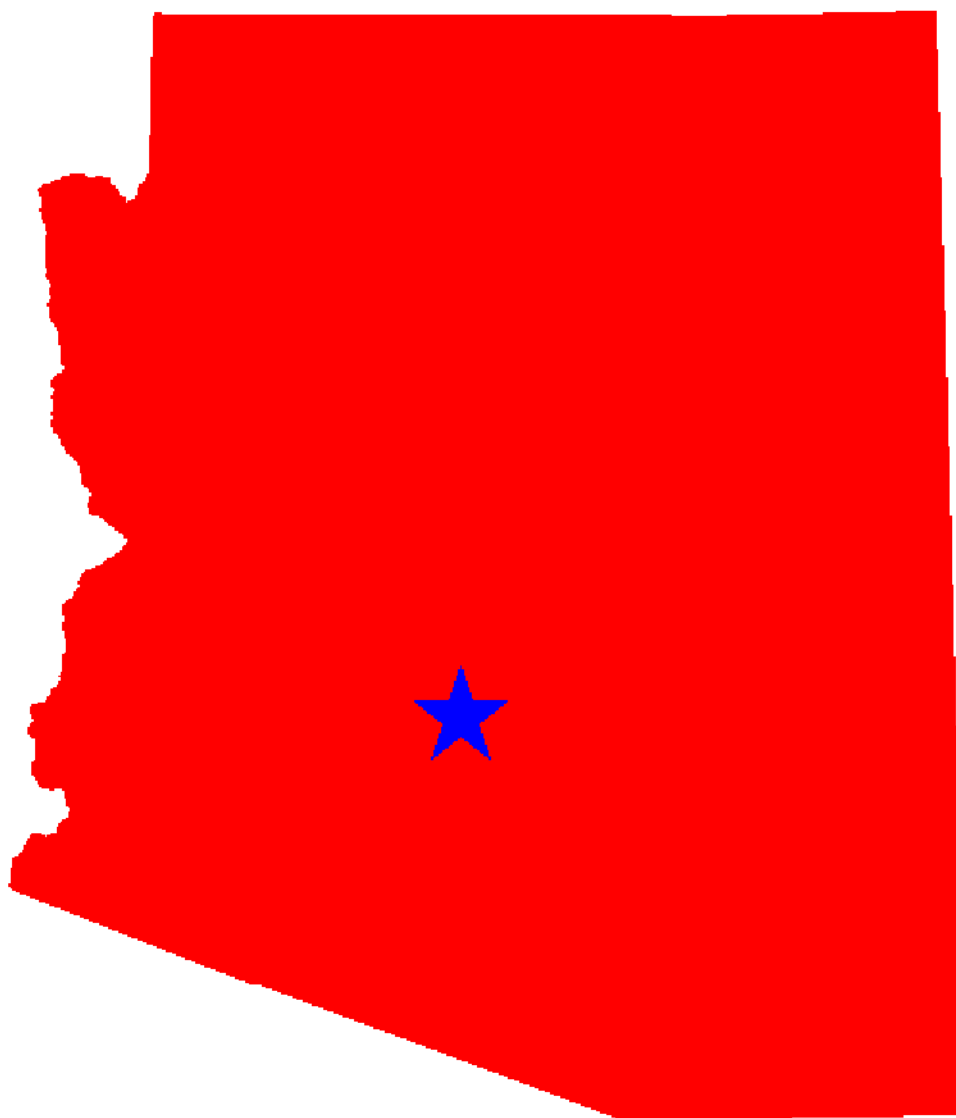




## Traffic Safety Facts Arizona 2008-2012



This Report Contains Data From the Following Sources:

Fatality Data - NCSA Fatality Analysis Reporting System (FARS): 2008-2011 Final File and 2012 Annual Report File (ARF)

Observed Safety Belt Data - NCSA National Occupant Protection Use Survey (NOPUS) and the Arizona State Survey

Vehicle Miles of Travel Data and Motorcycle Registrations - Federal Highway Administration (FHWA)

Population Data - U.S. Bureau of the Census



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U.S. Department of Transportation

National Highway Traffic Safety Administration

### Traffic Safety Performance (Core Outcome) Measures\* For Arizona

Core Outcome Measures		Year				
		2008	2009	2010	2011	2012
Traffic Fatalities	Total	938	806	759	826	825
	Rural	474	419	354	384	375
	Urban	464	386	405	439	448
	Unknown	0	1	0	3	2
Fatalities Per 100 Million Vehicle Miles Driven**	Total	1.52	1.31	1.27	1.39	
	Rural	2.60	2.30	2.04	2.24	
	Urban	1.07	0.89	0.95	1.04	
Passenger Vehicle Occupant Fatalities (All Seat Positions)	Total	595	464	432	438	471
	Restrained	201	164	157	171	165
	Unrestrained	330	248	235	222	252
	Unknown	64	52	40	45	54
Alcohol-Impaired Driving Fatalities (BAC=.08+)		262	218	206	212	227
Speeding-Related Fatalities		389	293	262	299	297
Motorcyclist Fatalities	Total	141	121	91	136	141
	Helmeted	67	52	35	56	68
	Unhelmeted	68	66	50	73	69
	Unknown	6	3	6	7	4
Drivers Involved in Fatal Crashes	Total	1,243	980	990	1,096	1,088
	Aged Under 15	2	1	1	1	0
	Aged 15-20	151	94	78	115	99
	Aged Under 21	153	95	79	116	99
	Aged 21 and Over	1,051	840	865	937	946
	Unknown Age	39	45	46	43	43
Pedestrian Fatalities		121	118	145	147	122

\*These Performance Measures Were Developed By The National Highway Traffic Safety Administration (NHTSA) and the Governors Highway Safety Association (GHSA) (See Publication: DOT HS 811 025)

\*\*2012 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

\*\*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

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### Fatality Rates: Arizona , U.S. and Best State

Year		Fatalities	Total Vehicle Miles Traveled (Millions)	Fatalities Per 100 Million Vehicle Miles Traveled	Total Population	Fatalities Per 100,000 Population
2008	Arizona	938	61,628	1.52	6,280,362	14.94
	US	37,423	2,976,528	1.26	304,093,966	12.31
	Best State*			0.67		5.63
2009	Arizona	806	61,628	1.31	6,343,154	12.71
	US	33,883	2,956,764	1.15	306,771,529	11.05
	Best State*			0.62		4.90
2010	Arizona	759	59,995	1.27	6,410,810	11.84
	US	32,999	2,967,266	1.11	309,326,225	10.67
	Best State*			0.64		3.97
2011	Arizona	826	59,574	1.39	6,467,315	12.77
	US	32,479	2,946,131	1.10	311,587,816	10.42
	Best State*			0.65		4.36
2012	Arizona	825			6,553,255	12.59
	US	33,561			313,914,040	10.69
	Best State*					2.37

\*State (or States) With Lowest Rates: Lowest VMT and Population Rates Could Be in Different States

2012 National VMT is a Preliminary Estimate and Subject to Change

2012 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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**Fatalities By The Highest Blood Alcohol Concentration (BAC) in the Crash\*\*:**  
**Arizona , U.S. and Best State**  
**(Old Definition)**

Year		Total Fatalities in all Crashes	Highest BAC level in the Crash					
			BAC = .01+			BAC = .08+		
			Number	Percent	Per 100 Million VMT	Number	Percent	Per 100 Million VMT
2008	Arizona	938	389	41	0.63	327	35	0.53
	US	37,423	15,449	41	0.52	13,258	35	0.45
	Best State*			21	0.21		16	0.16
2009	Arizona	806	331	41	0.54	281	35	0.46
	US	33,883	14,179	42	0.48	12,149	36	0.41
	Best State*			25	0.24		18	0.17
2010	Arizona	759	316	42	0.53	274	36	0.46
	US	32,999	13,323	40	0.45	11,462	35	0.39
	Best State*			23	0.21		20	0.19
2011	Arizona	826	335	41	0.56	280	34	0.47
	US	32,479	13,184	41	0.45	11,388	35	0.39
	Best State*			28	0.23		18	0.17
2012	Arizona	825	328	40		285	35	
	US	33,561	13,754	41		11,904	35	
	Best State*			24			21	

\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

\*\*Based on the BAC of All Involved Drivers, Motorcycle Riders (Operators), Pedalcyclists and Pedestrians

2012 National VMT is a Preliminary Estimate and Subject to Change

2012 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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Alcohol-Impaired Driving Fatalities\*\*:  
Arizona, U.S. and Best State  
(New Definition)

Year		Total Fatalities in all Crashes	Alcohol-Impaired Driving Fatalities (BAC = .08+)		
			Number	Percent	Per 100 Million VMT
2008	Arizona	938	262	28	0.43
	US	37,423	11,711	31	0.39
	Best State*			16	0.16
2009	Arizona	806	218	27	0.35
	US	33,883	10,759	32	0.36
	Best State*			17	0.16
2010	Arizona	759	206	27	0.34
	US	32,999	10,136	31	0.34
	Best State*			18	0.17
2011	Arizona	826	212	26	0.36
	US	32,479	9,865	30	0.33
	Best State*			17	0.16
2012	Arizona	825	227	28	
	US	33,561	10,322	31	
	Best State*			16	

\*State (or States) With Lowest Percents: Lowest Percents Could Be in Different States

\*\*Based on the BAC of All Involved Drivers and Motorcycle Riders (Operators) Only

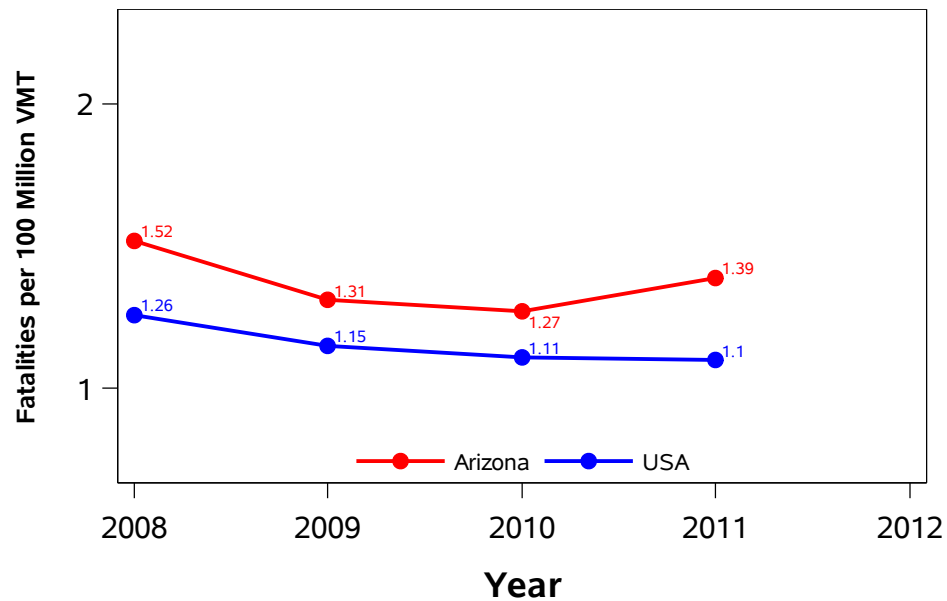
2012 National VMT is a Preliminary Estimate and Subject to Change

2012 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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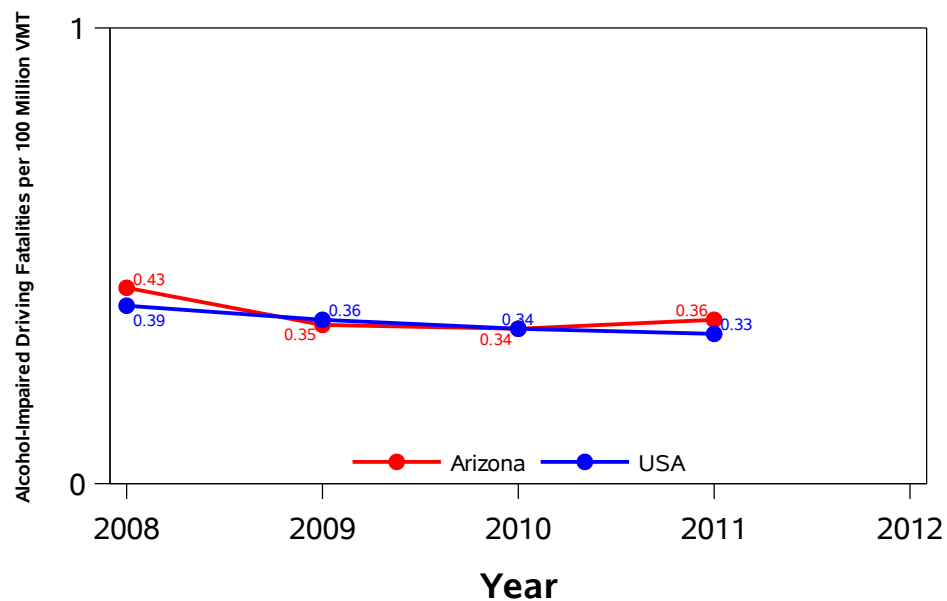


### Fatalities per 100 Million VMT



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### Alcohol-Impaired Driving Fatalities per 100 Million VMT



2012 National VMT is a Preliminary Estimate and Subject to Change  
2012 State Vehicle Miles Traveled (VMT) Data is Not Yet Available

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**Blood Alcohol Concentration (BAC) Reporting Rates**  
**For Drivers/Motorcycle Riders (Operators)**  
**Involved in Fatal Crashes:**  
**Arizona , U.S. and Best State**

Year		Surviving Drivers/Motorcycle Riders			Killed Drivers/Motorcycle Riders			Total Drivers/Motorcycle Riders		
		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS		Total	With Blood Alcohol Concentration (BAC) Results Reported to FARS	
			Number	Percent		Number	Percent		Number	Percent
2008	Arizona	721	213	30	522	426	82	1,243	639	51
	US	26,162	7,656	29	24,254	18,415	76	50,416	26,071	52
	Best State*			81			99			85
2009	Arizona	550	198	36	430	336	78	980	534	54
	US	23,502	7,188	31	21,835	16,753	77	45,337	23,941	53
	Best State*			86			100			90
2010	Arizona	605	218	36	385	331	86	990	549	55
	US	23,527	7,927	34	21,072	16,405	78	44,599	24,332	55
	Best State*			92			100			91
2011	Arizona	650	216	33	446	363	81	1,096	579	53
	US	23,025	7,484	33	20,815	15,846	76	43,840	23,330	53
	Best State*			88			98			93
2012	Arizona	618	206	33	470	380	81	1,088	586	54
	US	23,943	6,653	28	21,394	14,792	69	45,337	21,445	47
	Best State*			88			95			91

\*State (or States) With Highest Percents: Highest Percents Could Be in Different States

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U.S. Department of Transportation

National Highway Traffic Safety Administration

Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants, Aged 5 and Over, by Restraint Use:  
Fatalities and Observed  
Arizona , U.S. and Best State

Year		Fatalities - Restrained**	Observed - Restrained***
		Percent	Percent
2008	Arizona	52	80
	US	56	83
	Best State*	78	97
2009	Arizona	50	81
	US	58	84
	Best State*	77	98
2010	Arizona	51	82
	US	59	85
	Best State*	100	98
2011	Arizona	51	83
	US	59	84
	Best State*	80	98
2012	Arizona	49	82
	US	58	86
	Best State*	79	97

\*State With Highest Percent. Fatal Crash and Observed Percents Can Be Different States

\*\*Percent Based Only Where Restraint Use Was Known

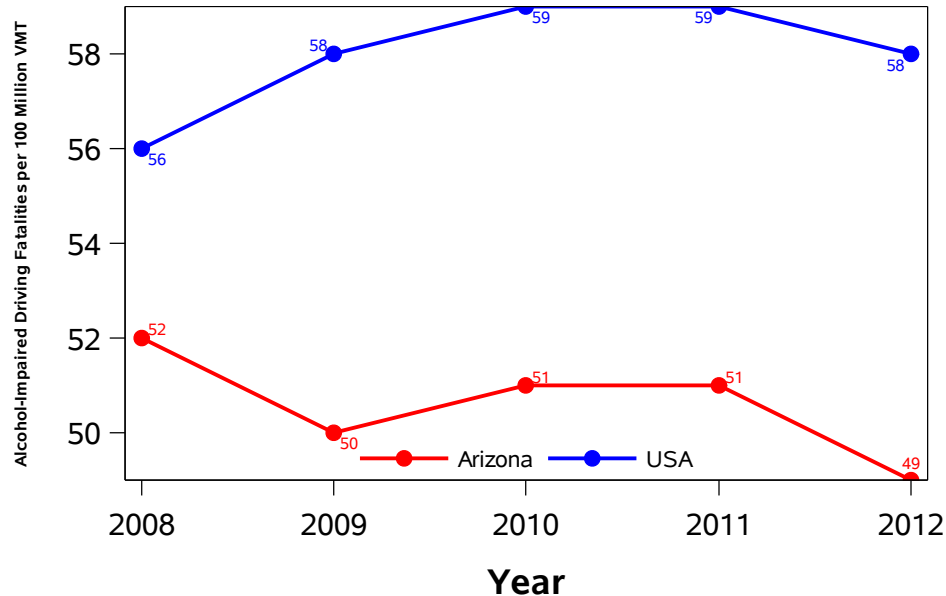
\*\*\*USA Data: National Occupant Protection Use Survey. Arizona Data: State Survey

Note: The Purpose of this Table is to Compare (as closely as possible) the Use of Restraint Systems by Fatally Injured Occupants with Occupants in all Driving Situations

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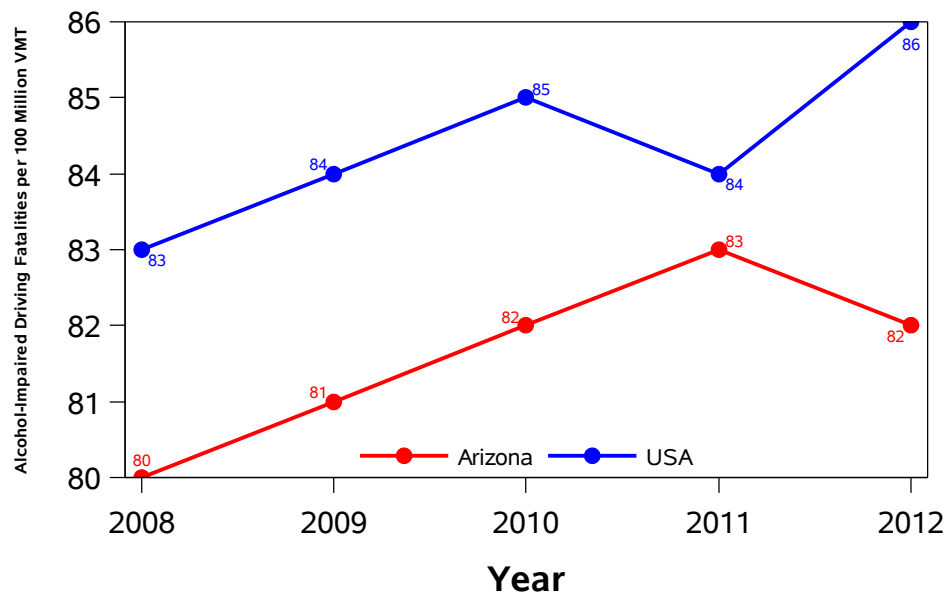
### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupant Fatalities, Aged 5 and Over, by Percent Restraint Use\*



\*Percent Based Only Where Restraint Use Was Known

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### Daytime Front Seat (Outboard Only) Passenger Vehicle Occupants Observed, Aged 5 and Over, by Percent Restraint Use\*



\*USA Data: National Occupant Protection Use Survey. Arizona Data: State Survey

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### Arizona Passenger Vehicle Occupant Fatalities Age 5 and Above by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 5 and Above					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Belt Use	Additional Lives Savable at 100% Belt Usage
2008	588	198	328	62	38	266	115
2009	452	156	246	50	39	217	91
2010	421	150	232	39	39	197	87
2011	427	167	217	43	43	233	97
2012	468	163	251	54	39	231	90

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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### Arizona Passenger Vehicle Occupant Fatalities Age 4 and Under by Restraint Use and Lives Saved Estimates

Year	Fatalities Age 4 and Under					Lives Saved Estimates**	
	Total	Restrained	Unrestrained	Unknown Restraint Use	Percent Known Restrained*	Lives Saved at Current Seat Belt and Child Safety Seat Usage	
2008	5	3	2	0	60	6	
2009	10	8	1	1	89	11	
2010	10	7	3	0	70	10	
2011	11	4	5	2	44	8	
2012	3	2	1	0	67	4	

\*Percent Based Only Where Restraint Use Was Known

\*\*Lives Saved Estimates

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### Arizona Motorcyclist Fatalities by Helmet Use and Lives Saved Estimates

Year	Fatalities					Lives Saved Estimates**	
	Total	Helmeted	Unhelmeted	Unknown Helmet Use	Percent Known Helmeted*	Lives Saved at Current Helmet Use	Additional Lives Savable at 100% Helmet Usage
2008	141	67	68	6	50	42	26
2009	121	52	66	3	44	32	25
2010	91	35	50	6	41	23	20
2011	136	56	73	7	43	35	28
2012	141	68	69	4	50	41	

\*Percent Based Only Where Helmet Use Was Known

\*\*Lives Saved Estimates (Sum of columns may not equal other published numbers due to rounding)

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### Arizona Fatalities by Person Type

Person Type		2008		2009		2010		2011		2012	
		#	%*	#	%*	#	%*	#	%*	#	%*
Occupants	Passenger Car	299	32	211	26	195	26	200	24	220	27
	Light Truck - Pickup	130	14	90	11	113	15	97	12	101	12
	Light Truck - Utility	132	14	120	15	101	13	121	15	126	15
	Light Truck - Van	34	4	43	5	23	3	20	2	24	3
	Large Truck	19	2	9	1	5	1	16	2	11	1
	Bus	0	0	7	1	6	1	1	0	0	0
	Other/Unknown Occupants	37	4	57	7	52	7	58	7	52	6
	<b>Total Occupants</b>	651	69	537	67	495	65	513	62	534	65
Motorcyclists	<b>Total Motorcyclists</b>	141	15	121	15	91	12	136	16	141	17
Nonoccupants	Pedestrian	121	13	118	15	145	19	147	18	122	15
	Bicyclist and Other Cyclist	19	2	25	3	19	3	23	3	18	2
	Other/Unknown Nonoccupants	6	1	5	1	9	1	7	1	10	1
	<b>Total Nonoccupants</b>	146	16	148	18	173	23	177	21	150	18
<b>Total</b>	<b>Total</b>	938	100	806	100	759	100	826	100	825	100

\*Sum of Percents May Not = 100 Due to Individual Cell Rounding

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### Arizona Fatalities by Crash Type

Crash Type	2008	2009	2010	2011	2012
<b>Total Fatalities (All Crashes)*</b>	938	806	759	826	825
<b>- (1) Single Vehicle</b>	558	506	477	501	508
<b>- (2) Involving a Large Truck</b>	98	66	65	68	85
<b>- (3) Involving Speeding</b>	389	293	262	299	297
<b>- (4) Involving a Rollover</b>	356	278	264	277	297
<b>- (5) Involving a Roadway Departure</b>	425	350	258	316	352
<b>- (6) Involving an Intersection (or Intersection Related)</b>	234	168	185	204	189

(1) Crash Involved Only One Coded Vehicle

(2) Crash Involved at Least One Large Truck

(3) Crash Involved at Least One Vehicle Speeding

(4) Crash Involved at Least One Vehicle That Rolled Over

(5) Crash Involved at Least One Vehicle That Departed the Roadway (FHWA Definition)

(6) Crash Occured Within an Intersection or Within the Approach to an Intersection

\*A Fatality Can Be in More Than One Category. Therefore Sum of the Individual Cells Will Not Equal the Total Due to Double Counting

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### Arizona Motorcyclist Fatalities by Age

Year	Age							Total
	<20	20-29	30-39	40-49	50-59	>59	Unknown	
2008	3	36	20	30	27	25	0	141
2009	2	11	23	27	29	28	1	121
2010	2	14	18	17	19	21	0	91
2011	3	26	18	25	40	24	0	136
2012	1	30	20	31	30	29	0	141

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### Arizona Motorcyclist Fatalities Per 100,000 Registered Motorcycles

Year	Motorcyclist Fatalities	Total Motorcycle Registrations*	Motorcyclist Fatalities Per 100,000 Motorcycle Registrations
2008	141	134,434	104.9
2009	121	138,475	87.38
2010	91	136,620	66.61
2011	136	178,928	76.01
2012	141		

\*Data Source: FHWA

\*2012 Motorcycle Registrations are Not Yet Available

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### Arizona Fatalities by Person Type and Race/Hispanic Origin

Person Type by Race/Hispanic Origin		2008	2009	2010	2011
Occupants (All Vehicle Types)	Hispanic	220	150	1	90
	White Non-Hispanic	435	297	13	294
	Black, Non-Hispanic	25	25	0	22
	American Indian, Non-Hispanic/Unknown	84	67	4	81
	Asian, Non-Hispanic/Unknown	5	5	1	2
	All Other Non-Hispanic or Race	15	17	0	14
	Unknown Race and Unknown Hispanic	8	97	567	146
	<i>Total</i>	792	658	586	649
Non-Occupants (Pedestrians, Pedalcyclists and Other/Unknown NonOccupants)					
	Hispanic	35	38	2	38
	White Non-Hispanic	70	49	6	55
	Black, Non-Hispanic	9	7	0	4
	American Indian, Non-Hispanic/Unknown	29	19	4	31
	Asian, Non-Hispanic/Unknown	0	1	0	1
	All Other Non-Hispanic or Race	1	8	1	7
	Unknown Race and Unknown Hispanic	2	26	160	41
	<i>Total</i>	146	148	173	177
<b>Total</b>		938	806	759	826

2012 Race/Hispanic Origin Data is Not Yet Complete

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### 5 Year Trend For The Top 10 Counties of 2012 - Fatalities

Arizona Counties by 2012 Ranking		Fatalities					Percent of Total				
		2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
1	Maricopa County	368	304	310	331	336	39	38	41	40	41
2	Pima County	137	93	105	99	109	15	12	14	12	13
3	Pinal County	81	75	63	78	60	9	9	8	9	7
4	Coconino County	51	40	46	46	57	5	5	6	6	7
5	Apache County	45	33	36	44	48	5	4	5	5	6
6	Mohave County	57	42	48	39	45	6	5	6	5	5
7	Yavapai County	41	46	44	53	39	4	6	6	6	5
8	Navajo County	36	44	32	30	30	4	5	4	4	4
9	Yuma County	26	25	15	22	24	3	3	2	3	3
10	Cochise County	33	39	23	23	22	4	5	3	3	3
<b>Sub Total 1.*</b>	<b>Top Ten Counties</b>	875	741	722	771	770	93	92	95	94	93
<b>Sub Total 2.**</b>	<b>All Other Counties</b>	63	64	37	53	54	7	8	5	6	7
<b>Total</b>	<b>All Counties</b>	938	805	759	824	824	100	100	100	100	100

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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### 5 Year Trend For The Top 10 Counties of 2012 - Fatalities Year to Year Percent Change

Arizona Counties by 2012 Ranking		Fatalities					Percent Change From Previous Year			
		2008	2009	2010	2011	2012	2009	2010	2011	2012
1	Maricopa County	368	304	310	331	336	-17	2	7	2
2	Pima County	137	93	105	99	109	-32	13	-6	10
3	Pinal County	81	75	63	78	60	-7	-16	24	-23
4	Coconino County	51	40	46	46	57	-22	15	0	24
5	Apache County	45	33	36	44	48	-27	9	22	9
6	Mohave County	57	42	48	39	45	-26	14	-19	15
7	Yavapai County	41	46	44	53	39	12	-4	20	-26
8	Navajo County	36	44	32	30	30	22	-27	-6	0
9	Yuma County	26	25	15	22	24	-4	-40	47	9
10	Cochise County	33	39	23	23	22	18	-41	0	-4
<b>Sub Total 1.*</b>	<b>Top Ten Counties</b>	875	741	722	771	770	-15	-3	7	-0
<b>Sub Total 2.**</b>	<b>All Other Counties</b>	63	64	37	53	54	2	-42	43	2
<b>Total</b>	<b>All Counties</b>	938	805	759	824	824	-14	-6	9	0

\*This Sub Total is the Total for the Top Ten Counties

\*\*This Sub Total is the Total for all Counties Outside the Top Ten

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## 5 Year Trend For The Top 10 Counties of 2012 - Fatality Rates

Median Rate for all U.S. Counties: 17.42

Arizona Counties by 2012 Ranking		Fatalities Per 100,000 Population				
		2008	2009	2010	2011	2012
1	La Paz County	97.30	87.74	34.20	136.69	88.75
2	Greenlee County	35.04	23.16	47.92	11.61	68.17
3	Apache County	64.39	46.47	50.23	60.83	65.58
4	Coconino County	38.68	29.97	34.17	34.30	41.91
5	Gila County	43.04	31.74	26.15	35.52	35.75
6	Navajo County	33.45	40.90	29.74	27.99	28.01
7	Mohave County	28.49	21.03	23.95	19.25	22.13
8	Santa Cruz County	19.50	36.16	14.77	8.43	19.03
9	Yavapai County	19.41	21.78	20.93	25.10	18.34
10	Cochise County	25.58	29.98	17.47	17.32	16.66
<b>Sub Rate 1.*</b>	<b>Top Ten Counties</b>	32.66	32.42	23.94	27.09	29.48
<b>Sub Rate 2.**</b>	<b>All Other Counties</b>	11.20	9.76	8.69	8.94	9.55
<b>Total Rate</b>	<b>All Counties</b>	14.94	12.69	11.84	12.74	12.57

\*This Sub Rate is the Rate for the Top Ten Counties

\*\*This Sub Rate is the Rate for all Counties Outside the Top Ten

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